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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/564,188

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EXAMINER

QUADER, FAZLUL

ART UNIT

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/564,188	Applicant(s) LEE ET AL.	
	Examiner Fazlul Quader	Art Unit 2169	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 January 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>01/09/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-17 are pending in this application.

Objections to Specifications

2. Drawings (Figures 2, 3, 4, 5, 11, 12, 13 and 16) are objected to for being blurry and unclear. Appropriate correction is required.

Objections to Claims

3. Claims 2-5 and 7-8, recite "a system; Claims 10, 12-15 recite "a method", which are indefinite. "the system" and "the method" would be more appropriate.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2164

5. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanevsky et al. (US 6665644), hereinafter “Kanevsky” in view of Strubbe et al. (US 6721706), hereinafter “Strubbe”.

As for case 1, a streaming based contents distribution network system for implementing Multimedia File Playing using networks, said system comprising: a splitter creating a file list and a header file about a plurality of UUID (Universally unique identifier) type files by splitting a multimedia file having large capacity (Robinson: [0004])

a merger restoring the multimedia files split by said splitter to an original file state when necessary (Robinson: [0004]);

an admin client having said splitter and said merger; an original contents server receiving split files from said admin client and saving said files on a first internal database;

a CMS server installed in said original contents server detecting data creation, modification and deletion in real time (Robinson: [0005]);

a plurality of CAS servers receiving contents files and header files from said original contents server, the received files split from an original file by said

Art Unit: 2164

splitter and saving said received files separately and said saved files being synchronized by said CMS server (Robinson: [0026]);

an IPMaster server managing Internet traffic of said system (Robinson: [0024]);

a CDMaster server synchronizing with a contents file saved on each of said CAS server by cooperating with said CMS server (Robinson: [0026]);

a CDMaster server synchronizing with contents files saved on each of said CAS servers by cooperating with said CMS server; a plurality of SM Agents (Server Monitoring Agents) installed in each of said CAS servers, transmitting information for CPU, memory and session of a corresponding CAS server to said IPMaster server in real time so that if a client requests, said IPMaster server can select the optimal CAS server to the corresponding client and provides the requested contents from the corresponding CAS server (Robinson: [0026]);

a plurality of contents servers, each of them having a pair of said CAS server and said SM Agent; a user-side Authentication Server performing authentication when a user logs in (Robinson: [0044]);

Art Unit: 2164

a Web server letting a client authenticated by said user-side Authentication Server connect to a web site constructed on Internet and access to a variety of contents (Robinson: [0044]);

a Primary Authentication Gateway Server having an authority to let a user access to contents saved on each contents server and checking whether each of said split contents files can be downloaded or not (Robinson: [0050], [0055]);

a Secondary Authentication Gateway Server realizing non-stop service by providing alternative routing for authentication in case of faults of said Primary Authentication Gateway Server (Robinson: [0058]);

an Authentication Proxy server installed in each of said Primary Authentication Gateway Server and said Secondary Authentication Proxy Server and sharing Authentication information among said Primary/Secondary Authentication Gateway Server and said user-side Authentication Server, and transmitting said Authentication information among said Primary/Secondary Authentication Gateway Server and said user-side Authentication Server (Robinson: [0058]); and

a dedicated client/player for said system getting authentication by requesting the authentication to said Primary Authentication Gateway Server in case that there are desired contents to download (Robinson: [0021]), and

requesting the information about said desired contents to said IPMaster server to download said desired contents from an optimal contents server appointed by said IPMaster server and saving the downloaded information on a second internal database, and reproducing only the files saved on said second database according to a predefined schedule although all of said split files are not saved on said second database (Robinson: [0032]), and

downloading the rest files while the reproduction is being made and saving the downloaded files on said second database so that the reproduction can be made continuously without a break (Robinson: [0021]).

Robinson, however, does not explicitly disclose, "MPEG structure";

Lepine, on the other hand, explicitly discloses, "MPEG structure" (Lepine: abstract).

Both Robinson and Lepine are of the same field of endeavor, they specifically teach streaming based content management (Lepine: [0001]; Robinson: [abstract]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Lepine into, that would have allowed users of Robinson to have a useful method, to adopt a data structure, an MPEG table, and to methods relating to the data and/or MPEG table, to apparatus, to apparatus for carrying out such methods, a parser, a receiver/decoder, a transmitter, a broadcasting system, a computer readable medium and a signal (Lepine: [0002]).

6. As for case 2, a system as set forth in claim 1, wherein said system further comprises a DRM (Digital Rights Management) Encryption/Decryption Module in charge of copyright protection and management about said split and merged multimedia contents in encrypting each of said split files and in decrypting said merged file (Robinson: [0052]).

7. As for case 3. a system as set forth in claim 1, wherein a manager considers network traffic, state of network traffic and state of said system and makes it possible to split a desired file into files having a desired form and size and to transmit data without delay by using the most rapid method (Robinson: [0052]).

8. As for case 4, a system as set forth in claim 1, wherein said client/player downloads files to be reproduced in future from a plurality of contents servers saving the same contents through multi thread in parallel with the reproduction of

Art Unit: 2164

downloaded files at the same time (Robinson: [0054]).

9. As for case 5, a system as set forth in claim 1, wherein said client/player is a multi-tasking system capable of parallel downloading of the split files by using a Multi-Thread and uses an ITM solution of a Stand-aside type, which makes it possible to download files continuously by comparing a file list of a Media-header part through normally operating servers even though a fault occurs in some servers among a plurality of contents servers (Robinson: [0052]-[0054]).

10. As for case 6, a streaming contents distribution network system having an original contents server and a plurality of contents servers copying and saving the original contents, said system comprising: an ENSplitter splitting a multimedia file to a plurality of UUID(Universally unique identifier) type files and creating a header file and saving the header file on a database of said original contents server and also performing file merging, encrypting and decrypting of said UUID files (Robinson: [0004]) ;

an ENSource participating in both a process of file split/mergence and a process of media reproduction and operation differently in each process and really splitting/merging media file and creating/analyzing a corresponding Header file, wherein said ENSource encrypts/decrypts UUID file and operates as a regular Direct Show Source Filter and transmits media data according to data requests of a Filter Graph and operates as a source plug-in DDL when

Art Unit: 2164

reproducing Window media file and has UUID files and a table having information for positions and capacities of said UUID files (Robinson: [0004]);

an ENNetwork downloading a plurality of UUID files saved on a database in each contents server into a database of a Client side and saving on a Hard Disk of a client as a form of a Temporary File and managing the saved files, wherein at the same time if said ENSource requests a certain UUID file, said ENNetwork downloads or searches the file and then transmits a file handle (a Header file) to said ENSource and has a list of UUID files and a table saving a list of a Temporary file corresponding to the UUID files (Robinson: [0052]-[0054]); and

an ENPlayer being a Direct Show Application and playing a role as a real Filter Graph and requesting data by using a clear description for its position and capacity to said ENSource through a Filter Graph Manager, and processing the transmitted data and reproducing media and having a play function of media files Robinson: [0026]).

Robinson, however, does not explicitly disclose, "MPEG structure";

Lepine, on the other hand, explicitly discloses, "MPEG structure" (Lepine: abstract).

Both Robinson and Lepine are of the same field of endeavor, they specifically teach streaming based content management (Lepine: [0001]; Robinson: [abstract]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Lepine into, that would have allowed users of Robinson to have a useful method, to adopt a data structure, an MPEG table, and to methods relating to the data and/or MPEG table, to apparatus, to apparatus for carrying out such methods, a parser, a receiver/decoder, a transmitter, a broadcasting system, a computer readable medium and a signal (Lepine: [0002]).

11. As for case 7, a system as set forth in claim 6, wherein said ENSplitter has a source file, an object file, a capacity of a file to be split, a Means of function selection, a Means of format selection and a Window where said Means of function selection has a split button and a merge button, and said means of format selection has an AVI button, an MPEG button and a Window Media button and said system uses an ITM solution of a Stand-alone type (Robinson: [0039]).

12. As for case 8, a system as set forth in claims 6 or 7, wherein in encrypting said split files and in decrypting said merged file said system further comprises a

Art Unit: 2164

DRM (Digital Rights Management) Encryption/Decryption Module in charge of copyright protection and management about said split and merged multimedia contents (Robinson: [0052]).

13. As for case 9, in a streaming contents distribution network system having an Original contents server saving original contents and a plurality of contents servers copying and saving said original contents for implementing Multimedia File Playing using a network, a method for splitting a multimedia file, transmitting and reproducing the transmitted files, said method comprising (Robinson: [0039]):

a step for splitting a multimedia file or merging multimedia files through a File Splitter; a step for uploading said split or merged multimedia files to an Admin Server (Robinson: [0004]);

a step for copying said split contents files and a Header file to a database of a plurality of contents servers by using the Admin Server and synchronizing the contents (Robinson: [0005]);

a step for connecting to a Web server and selecting contents by a Client, wherein an Authentication Server of a user side performs authentication for a user ID, contents, completion time of contents and requests a billing process about an authenticated user to a Billing System Server and the Authentication

Art Unit: 2164

Server of a user side requests authenticate information to the Authentication Proxy server and then the Authentication Proxy server transmits authenticate information to the Authentication Server of a user side (Robinson: [0004]);

a step for downloading Authentication Key and a Header File into a Client; a step for requesting an optimal contents server to an IPMaster for downloading contents by a Client; If an IPMaster selects the optimal contents server according to said request and notifies the selected result to the client, a step for requesting contents files to the corresponding contents server with an authentication Key by the Client, and requesting verification to a Primary Authentication Gateway Server whether authenticated or not by the contents server according to the user's request (Robinson: [0033]);

a step for downloading the requested file if said Primary Authentication Gateway Server makes the Authentication (Robinson: [0026]);

a step for saving downloaded file on a temporary storage as a temporary file by a client according to a schedule (Robinson: [0044]);

a step for reproducing said downloaded data by using a dedicated player (Robinson: [0021]); and

Art Unit: 2164

a step for deleting said temporary file saved on a temporary storage with the completion of the reproduction (Robinson: [0036]).

As for case 10, a method as set forth in claim 9, wherein in splitting of a file, said split file is encrypted by using a DRM Encryption/Decryption Module and said system uses an ITM solution of a Stand-aside type (Robinson: [0039]).

Robinson, however, does not explicitly disclose, "MPEG structure";

Lepine, on the other hand, explicitly discloses, "MPEG structure" (Lepine: abstract).

Both Robinson and Lepine are of the same field of endeavor, they specifically teach streaming based content management (Lepine: [0001]; Robinson: [abstract]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Lepine into, that would have allowed users of Robinson to have a useful method, to adopt a data structure, an MPEG table, and to methods relating to the data and/or MPEG table, to apparatus, to apparatus for carrying out such methods, a parser, a

Art Unit: 2164

receiver/decoder, a transmitter, a broadcasting system, a computer readable medium and a signal (Lepine: [0002]).

14. As for case 11, in a streaming contents distribution network system having an Original contents server saving original contents and a plurality of contents servers copying and saving said original contents for implementing Multimedia File Playing using a network, a method for splitting a multimedia file comprising (Robinson: [0004]):

a step for transmitting a Header file path to an ENSource by an ENSplitter that is a file splitter; a step for operating a Filter Graph Manager by an ENSplitter so that an ENSource participates in connecting a Filter Graph (Robinson: [0005]);

if a Parser Filter requests data to the ENSource in said participating process, a step for transmitting the data requested by the Parser Filter existing in a Filter Graph and recording the particulars by an ENSource (Robinson: [0004]);

a step for splitting a media file based on the information of connection and split capacity by the ENSource if the ENSplitter gives a split order through an IENSource interface (Robinson: [0044]); and

a step for dynamically allotting UUID type files needed in said file split and performing encryption when necessary, wherein the ENSource arranges the

Art Unit: 2164

UUID files and their tables for position and capacity after completion of the file split, and then creates a Header file (Robinson: [0050]-[0052]).

Robinson, however, does not explicitly disclose, "MPEG structure";

Lepine, on the other hand, explicitly discloses, "MPEG structure" (Lepine: abstract).

Both Robinson and Lepine are of the same field of endeavor, they specifically teach streaming based content management (Lepine: [0001]; Robinson: [abstract]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Lepine into, that would have allowed users of Robinson to have a useful method, to adopt a data structure, an MPEG table, and to methods relating to the data and/or MPEG table, to apparatus, to apparatus for carrying out such methods, a parser, a receiver/decoder, a transmitter, a broadcasting system, a computer readable medium and a signal (Lepine: [0002]).

15. As for case 12, a method as set forth in claim 11, wherein in splitting a file, said split files are encrypted by using a DRM Encryption/Decryption Module and

Art Unit: 2164

said system uses an ITM solution of a Stand-aside type (Robinson: [0039]).

16. As for case 13, a method as set forth in claim 11, wherein in case that a corresponding source file is defined as connection information needed in structuring a filter graph, said method further comprises a step for performing said information analysis in order to complete file split perfectly and in this case x and y of (x, y) are indices for searching header information that denotes a position in a file and the position information 0 is a starting point of a header file (Robinson: [0044]).

17. As for case 14, a method as set forth in claim 13, wherein said method further comprises a step for arranging a plurality of small-sized file pieces created in file split on the basis of said connection information (Robinson: [0044]).

18. As for case 15, a method as set forth in claim 11, wherein said method further comprises a step for adding a parser filter and changing a protocol in accordance with a format for the format verification and the improvement of efficiency (Robinson: [0044]-[0046]).

19. As for case 16, in a Streaming contents distribution network system for implementing Multimedia File Playing using a network, a file merging method for verifying whether a multimedia file was restored normally or not, wherein the

Art Unit: 2164

multimedia file was split in the system and transmitted from the system, said method comprising:

a step for transmitting a Header file path to an ENSource through an IENSource interface of the ENSource by an ENSplitter, wherein the ENSplitter operates as a Merger and is a starting point for file merging in case merging UUID files (Robinson: [0004]);

a step for analyzing the Header file and restoring UUID files, their tables for position and capacity by the ENSource; a step for requesting UUID files through an IENManager interface of an ENNetwork in accordance with the information recorded in a Header file by the ENSource (Robinson: [0004]);

a step for copying or downloading the UUID files which the ENSource requested and saving the downloaded files on a temporary storage and transmitting a corresponding file handle to the ENSource by the ENNetwork (Robinson: [0021]); and

a step for reading data through the file handle transmitted from the ENNetwork and performing file merging and restoring an original file by the ENSource, and in this case if a file is encrypted, merging process is performed after decryption of the file (Robinson: [0033]).

Art Unit: 2164

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Lepine, on the other hand, explicitly discloses, "MPEG structure" (Lepine: abstract).

Both Robinson and Lepine are of the same field of endeavor, they specifically teach streaming based content management (Lepine: [0001]; Robinson: [abstract]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Lepine into, that would have allowed users of Robinson to have a useful method, to adopt a data structure, an MPEG table, and to methods relating to the data and/or MPEG table, to apparatus, to apparatus for carrying out such methods, a parser, a receiver/decoder, a transmitter, a broadcasting system, a computer readable medium and a signal (Lepine: [0002]).

20. As for case 17, a reproduction method of a multimedia file that is split and transmitted in a Streaming contents distribution network system for implementing Multimedia File Playing using a network, said method comprising (Robinson: [0004]):

Art Unit: 2164

a step for making a Direct show application play a role as a main starting point when reproducing multimedia files, and operating in accordance with the request of a filter graph and transmitting a Header file path appointed by the Direct show application to an IfileSourceFillter interface of an ENSource through a filter graph manager (Robinson: [0033]);

a step for analyzing the Header file and restoring UUID files and their tables for position and capacity by the ENSource (Robinson: [0047]);

a step for requesting data needed in connection and reproduction to the ENSource in sequence by filter graph and at this time transmitting the information specifying the data position and capacity of a desired file (Robinson: [0033]);

a step for finding UUID files in accordance with the information recorded in a Header file about the data requested by a filter graph and requesting the file through an IENManager interface of an ENNetwork by the ENSource (Robinson: [0026]);

a step for copying or downloading a UUID file which the ENSource requests and saving the copied or downloaded file on a temporary storage and transmitting a corresponding file handle to the ENSource by the ENNetwork (Robinson: [0021]); and

Art Unit: 2164

a step for reading data through a file handle transmitted from the ENNetwork and transmitting the read data to a filter graph and in this case if a file is encrypted, performing decryption by the ENSource (Robinson: [0033]).

Robinson, however, does not explicitly disclose, "MPEG structure";

Lepine, on the other hand, explicitly discloses, "MPEG structure" (Lepine: abstract).

Both Robinson and Lepine are of the same field of endeavor, they specifically teach streaming based content management (Lepine: [0001]; Robinson: [abstract]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Lepine into, that would have allowed users of Robinson to have a useful method, to adopt a data structure, an MPEG table, and to methods relating to the data and/or MPEG table, to apparatus, to apparatus for carrying out such methods, a parser, a receiver/decoder, a transmitter, a broadcasting system, a computer readable medium and a signal (Lepine: [0002]).

Art Unit: 2164

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FAZLUL QUADER whose telephone number is (571)270-1905. The examiner can normally be reached on M-F 8-5 Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on 571-272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FAZLUL QUADER
Examiner
Art Unit 2164

/FQ/

/Charles Rones/
Supervisory Patent Examiner, Art Unit 2164